

Pacific Coast C. 400 P11 73d-76th

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BUREAU OF ENTOMOLOGY MAR 3 - 1921 RECEIVED

The seventy-third meeting of the Society was held on the evening of Saturday, September 20th, 1919, in the Board Room of the Mechanics' Institute, 57 Post Street, San Francisco, California.

President Van Dyke in the chair.

Minutes of the preceding meeting were read and approved.

Nine members responded to roll call as follows: Dr. E. C. Van Dyke, Mrs. E. C. Van Dyke, Chas. L. Fox, J. C. Huguenin, Ralph Hopping, E. P. Van Duzee, Wm. F. Breeze, Dr. F. E. Blaisdell, and Dr. J. F. Killeen.

Ten guests were present: Mrs. Ralph Hopping, Mrs. E. P. Van Duzee, Mrs. Grant Wallace, Mrs. F. E. Blaisdell, J. O. Martin, O. E. Plath, Henry Dietrich, Mrs. C. R. Hubbs, Grant Wallace and J. O. Wints.

After reading of the Treasurer's report, under communications Dr. Blaisdell stated that Mr. L. R. Reynolds and wife were in the City of Mexico, and that they found everything peaceful and pleasant there.

Under new business Mr. Van Duzee suggested that the Society consider affiliation with the Pacific Branch of the A. A. A. S. A motion to that effect was made by Mr. Van Duzee; it was seconded, put to vote and carried. Mr. Hopping asked to have it laid on the table until the November meeting, as it would give the members time to consider the proposition.

Under new members, Mr. Hopping said that he was surprised to learn that Mr. J. O. Martin was not a member of the Society and that he wished to propose him for membership. The proposal was seconded by Dr. Van Dyke. Mr. Van Duzee then proposed that Mr. Grant Wallace, Mr. Henry Dietrich and Mr. O. E. Plath be elected to membership. The proposals were seconded by Mrs. Van Dyke. Mr. Fox asked that the vote be made unanimous; so ordered.

Mr. Fox being called upon for remarks, gave the following report:

"I collected from July 16th to August 8th, 1919, in Mt. Rainier National Park, Washington. Staying at Longmire Springs (2500 ft.) for the first ten days, afterwards collecting on the higher elevations up to 8000 ft., making Paradise Valley (2500 ft.) my headquarters.

Included in the material taken were the following butterflies:

Argynnis bischoffi washingtonia (B. & McD., considered to be the southern representative of the Alaskan form *bischoffi*.

Brenthis chariclea rainieri B. & McD.—This appears to be the northern race of *nubigena*.

Euphydryas colon Edw.

Melitaea hoffmanni segregata B. & McD.

Polites sonora Scud.

The family Lycænidae was represented by—
Mitouri mariposa Reak.

Plebeius aquilo rustica Edw.—This small dusky bluish gray butterfly, close to the race *podarce* from California, I found flying only on Lyall's lupine in the pumice fields from 6500 ft. to 8000 ft. elevation.

Diptera and Hymenoptera were very abundant. From the material that I collected of the former order four new species have been described and will be published shortly as follows:

TIPULIDAE.

Ormosia paradisea, new species, described by C. P. Alexander.

SYRPHIDAE.

Chilosia pollenifrons, new species.

Myiolepta carbicolor, new species, described by A. L. Lovett.

DOLICHOPODIDAE.

Dolichopus argentipes, new species, described by M. C. Van Duzee."

Dr. Blaisdell followed with remarks relating to his outing with Mr. Van Duzee, at Huntington Lake, Fresno County, California.

Mr. Huguenin stated that he had been ill and had made a visit to Marin County, near Lagunitas; had found an old tin tobacco-box full of the cocoons of *Malacosoma californica*. It was estimated that at least sixty pupæ were contained in the box. He also mentioned a visit to Sutro Heights, near the Cliff House, San Francisco, where he observed immense numbers of butterflies, especially of *Vanessa californica*.

Mr. Van Duzee remarked on the fine series of Diptera taken by Mr. Fox at Mt. Rainier and presented to the Academy of Sciences. He also told of the types that had been placed in the California Academy of Sciences by Mr. Giffard. He stated that he had Prof. Bradley's itinerary and could answer questions as to his whereabouts. Prof. Bradley was a member of a Scientific Expedition to South America.

Dr. Van Dyke told how Mr. Giffard came into possession of the types presented to the Academy. They were in the Harford collection when sold to Mr. Koebele, who in turn sold them to Mr. Giffard.

Mr. Hopping said that he was constantly in the field on Forestry service and did not have much time to collect.

Dr. Killeen reported that he had been south to Santa Cruz, Skyland and East Berkeley. His material was not worked up.

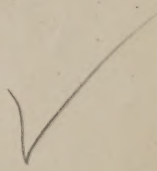
Dr. Van Dyke made a few remarks regarding the work

of the new members. Mr. Plath was studying the problem of flies that live in birds' nests.

Dr. Blaisdell spoke of what was probably a new species of *Eusattus* taken by Mr. Van Duzee on the islands off the coast of Santa Barbara. He also reported that his paper on the Tenebrionid Genus *Cælus* was finished and submitted to the American Entomological Society at Philadelphia and that it would appear in the Proceedings of that Society next October. He also discussed *Omus lævis* and its races, as studied in the material taken at Huntington Lake, and in the collections of Ralph Hopping, Dr. E. C. Van Dyke and his own.

Mr. Van Duzee reported on several collecting trips he had made during the summer in the interest of the California Academy of Sciences. One to Carmel, Monterey County, March 23rd-25th, at invitation of Mr. L. S. Slevin, with cool and disagreeable weather, resulted in the capture of about 1000 insects including many new to the Academy collection and at least two Hemiptera new to science. On April 20th to 28th he made a trip by auto with Mr. Slevin through Salinas Valley to San Luis Obispo. Stopping to collect at Bradley, Stone Canyon, Paso Robles, Atascadero, San Luis Obispo and Pismo Beach. In spite of much cool weather he took over 1600 insects including many interesting Diptera and Coleoptera, among the latter *Coniontis abdominalis* Lec. at the mouth of Stone Canyon. May 15th-21st he went with Dr. Evermann, Dr. Van Denburg and Mr. J. R. Slevin of the Academy staff, to the Channel Islands, visiting Anacapa, Santa Cruz, San Miguel and Santa Rosa Islands. On Prince Island, in the harbor of San Miguel, a new species of *Eusattus* was taken in numbers on the steep sandy southern slope under low matted weeds growing where little water runs had left fine silt. Altogether 2000 insects were taken on this trip including several undescribed forms and many new to the Academy collection. On June 1st-3rd he went with Mrs. Van Duzee to Santa Cruz as guest of Mr. E. A. Dodge. About 1000 insects were taken there including several new Diptera. The month of July was spent in company with Mrs. Van Duzee and Dr. and Mrs. F. E. Blaisdell at Huntington Lake, Fresno County, where about 6000 insects were taken, among them many interesting Diptera and Hemiptera, of which fifteen have already been described as new with other good things to be worked out later. Finally, August 19th-21st were spent with Mrs. Van Duzee at Stockton where the most interesting things taken were among the Hymenoptera and Diptera.

Mr. C. L. Fox exhibited ten specimens of *Melitæa leanira* Bdv. and *Melitæa leanira* form *obsoleta* Hy Edw. and intermediate forms with the following remarks: "On June 8th, 1919,



near Fairfax, Marin County, I took a large series of both typical *Melitæa leanira* having the underside of the secondaries marked with black blotches near the base, and a double submedian band inclosing a series of six spots of the pale ochraceous color of the ground, and the form *Melitæa leanira obsoleta* Hy Edw., on which these marks are obliterated, and nothing appears but the nervules and a slight black marginal line. With these were flying also intermediate forms, the black marking on some being just faintly discernable, whilst on others they were more distinct, approaching closer to typical *leanira*. The above observations are interesting from the fact that Henry Edwards in his description of *obsoleta* from near San Rafael, Marin County (Proc. Calif. Acad. of Sciences, Vol. VII, Part I, 1876), makes no mention of any intermediate forms between it and typical *leanira*, but states that *obsoleta* is so constant in its characters as to suggest the idea of a new species."

He also gave the following notes:

Parnassius clodius Men.

Taken by me June 1st, 1913, at Bear Valley, Marin County, California. Elevation 100 feet. This seems to be the first record of the capture of this diurnal in any of the counties around San Francisco, since James Behrens thirty years ago took some specimens at Bodega, Sonoma County, which is probably the type locality or close to it as the original description by Menetries was made, as he says "from a specimen brought from California by our traveler Wosnesenky." Dr. Wosnesenky was connected with the Russian Colony at Fort Ross, Sonoma County, and no doubt did a good deal of his collecting in the neighborhood.

Plebius sæpiolus Bdv.

Taken by me in May, 1918, in Bear Valley, Marin County, California. Elevation 100 feet. I cannot find a record of this "Blue" having been taken in any of the counties adjacent to San Francisco. It has generally been known as a mountain butterfly found at elevations of 2500 feet and upwards. The females from Bear Valley, Marin County, are of a very dark brown heavily scaled with blue, unlike the specimens I have from Shasta, Trinity County and Mono Lake regions, which have no trace of blue whatever and are of a much lighter and redder color. Barnes and McDunnough in their "Contributions" (Vol. III, No. 2, p. 111) remark that the form of *sæpiolus* with the female scaled with blue seems rare in California and are either very local or confined to high altitudes, and are apparently the usual and possibly the only form of female found in the North of the Continent—i. e., Northern British Columbia,

Saskatchewan, etc. It is also found in the high altitudes of Colorado, Southern Utah and the White Mountains, Arizona. *Hesperia ruralis* Bdv.

Taken by me in Bear Valley, Marin County, California. Elevation 100 feet. April 13th, 1919. This seems to be the first record of the capture of this small dark skipper in any of the counties around San Francisco."

Mr. Fox exhibited transparent mounts of *Lycæna*, *Pyrgus*, *Parnassus* and two boxes of Diptera taken at Mt. Rainier, these Diptera having been donated to the California Academy of Sciences.

Dr. Blaisdell showed specimens of *Omus lævis* Horn, *gracilior* Casey, and *tularensis* Casey.

Mr. Huguenin passed around the box of cocoons reported earlier in the evening.

Mr. Hopping exhibited a box of miscellaneous Coleoptera, among which were a pair of *Eleodes caseyi* Blais., *Rhinoplatia ruficollis* Horn, *Eustrophus arizonensis* Horn, and a long series of *Coniontellus argutus* Casey, from Mono County, California.

Discussion and adjournment followed.

F. E. BLAISDELL, Secretary.

The seventy-fourth regular meeting of the Society was held on the evening of December 13th, 1919, in the Board Room of the Mechanics' Institute, 57 Post Street, San Francisco, California.

President Van Dyke in the chair.

Minutes of the preceding meeting were read and approved.

Ten members responded to roll call as follows: Dr. E. C. Van Dyke, Dr. F. E. Blaisdell, J. C. Huguenin, Chas. L. Fox, Wm. F. Breeze, E. P. Van Duzee, E. R. Leach, J. O. Martin, Grant Wallace and Henry Dietrich.

Six guests were in attendance as follows: Mrs. Van Duzee, Mrs. F. E. Blaisdell, Mr. and Mrs. M. C. Lane, Frank R. Cole and Henry G. Good.

After reading of the Treasurer's report, the question of affiliation with the Pacific Coast Section of the A. A. A. S. was taken up for discussion. It was decided to let the matter rest until the next meeting.

Under new members Mr. Van Duzee proposed Mr. Frank Cole and Mr. G. F. Ferris for membership. The proposals were seconded by Mr. Leach. Dr. Blaisdell proposed that the election be made unanimous, which was done, their names being recorded in the roll book.

Mr. Ferris being called upon for remarks, reported his recent trip to Lower California. In response to a question asked by Mr. Breeze regarding Lepidoptera he stated that Lepidoptera were very scarce and that but few dragonflies were observed.

Mr. Cole made some interesting remarks regarding Diptera as follows:

"In the past two years I have had the opportunity of collecting insects in the Northwest and have explored some interesting territory, almost virgin country for the entomologist. For a time I was stationed in the beautiful Hood River Valley of Oregon as an assistant in the U. S. Bureau of Entomology. It was at this time that I thought of listing the Diptera of Oregon and I was happily situated for the collecting part of this undertaking. A preliminary report of this work will soon appear in the Proceedings of the California Academy of Sciences. Of course one would expect a great many undescribed species to turn up, but one of the most important things accomplished was the recognition of most of the species collected in this region many years before and described by Loew, Bigot and Williston. Some of Loew's species described from scanty material taken at Sitka, Alaska, were found to occur in the Hood River Valley. Many Boreal species seem to follow down this tumbling glacial stream to the level of the great Columbia River. Little of the great area of the State was

touched in this preliminary survey, but we hope that the publication of the list will arouse an interest in the group among collectors in the State.

Some of the most interesting collecting one finds out west is that done on mountain tops. Many species congregate at high altitudes during the summer months, especially Syrphidae and Bombyliidae in the Diptera. One of the trips that will live long in my memory was a collecting expedition to the top of Moscow Mountain in Western Idaho, in company with some other 'bug' men, among them Dr. Aldrich and Dr. Melander, both of whom had made the trip many times. This mountain has a very interesting fauna. Dr. Van Dyke considers many of the species almost pure Tertiary, a closely related fauna being found in the Appalachian Mountains of the Eastern United States. June and July are the best months for most things on these mountain tops in Oregon and Washington. Many of the flies find the very highest pinnacle and buzz around it, circling and darting here and there, their maneuvers becoming more rapid when the sun is hot. Moscow Mt. is about 6000 feet in altitude, so it is well within the range of many species.

The collections of the California Academy of Sciences are growing rapidly in many groups of insects and in a few years we hope to have a fairly complete collection of the Diptera known from the State, and many that are as yet unknown. A list of the Diptera of California is under way and from all appearances it will break all previous records for numbers of species. Of course we are living in an immense State and one that is popular with eastern as well as western entomologists. Our entomological history goes back over a long period of years and yet how little do we know of the myriads of species in such groups as the Diptera and Hymenoptera."

Dr. Van Dyke reviewed the work done by dipterists on the Pacific Coast with special reference to the good work being done by Mr. Cole.

Mr. Martin reported on the occurrence of *Brychius horni* Cr. in the San Francisco Bay region as follows: "About the middle of October, while on a collecting trip to Sunol, Alameda County, I found in a stream, about one mile north of that place, two specimens of *Brychius horni* Cr. The next day I returned to the same place and searched the banks of that stream for a mile up and down without finding a single *Brychius*. One week later I made another search and after considerable work succeeded in locating a colony of these beetles of which I took about forty specimens. They were located in a place where *Chara* was growing on a gravelly bottom and the current ran quite swift; by placing my net on

the bottom and stirring up the gravel just above, I found them one or two at a time mixed with large numbers of *Hydroporus eximus* Mots. Careful examination of other likely looking places failed to produce any others from which I concluded that they are quite local."

He also stated that *Brychius parvulus* has been reported as found in San Mateo County; *Brychius gracilis* from Corvallis, Oregon, and that Dr. Van Dyke and himself had taken it at Lake Lagunitas, Marin County, California. It is usually found in running water, but sometimes at margins of lakes.

Mr. Leach followed with remarks on the seventeen-year locust (*Cicada septemdecem*), reporting observations made during a visit in the East, at Plummers' Island in the Potomac River, near Washington, D. C., and Southeastern Tennessee and near Baltimore, Maryland. He exhibited specimens.

Dr. Blaisdell discussed his conclusions regarding the species of *Omus* taken during the summer of 1919 at Huntington Lake, Fresno County, California. He considered it as *Omus laevis* subspecies *gracilior* Casey, and exhibited a series of *Omus*.

Mr. Huguenin talked about certain observations that he had made regarding butterflies observed late in the season. He stated that at Fairfax, Marin County, California, near a small meadow-like field he found *Pyramis caryæ*, *Colias* and *Junonia* very common. *Phryganidia californica* were seen by the thousands.

Social discourse and adjournment followed.

F. E. BLAISDELL, Secretary.

The seventy-fifth meeting of the Society was held on Saturday evening, March 20th, 1920, in the Board Room of the Mechanics' Institute, 57 Post Street, San Francisco, California.

President Van Dyke in the chair.

Minutes of the preceding meeting were read and approved.

Eleven members responded to roll call: Dr. E. C. Van Dyke, F. W. Nunenmacher, Dr. F. E. Blaisdell, Chas. L. Fox, Wm. F. Breeze, E. P. Van Duzee, J. O. Martin, Grant Wallace, O. E. Plath, Frank R. Cole, G. F. Ferris.

Three guests were present: Mrs. E. P. Van Duzee, Mrs. F. E. Blaisdell and Henry G. Good.

After the reading of the Treasurer's report, the matter of affiliation with the Pacific Division of A. A. A. S. was reconsidered. After a brief discussion it was voted to affiliate. The proposition was made by Mr. F. W. Nunenmacher and seconded by Mr. Breeze.

A communication was read from Mr. J. G. Grundel as follows:

"Members of the Pacific Coast Ent. Society:

I am very sorry not to be able to write oftener, or better still to be with you now and then. You will see by the heading of this letter that I am in the nursery business and making a specialty of walnut trees. At present I am interested in economic entomology. I have taken up the investigation of the wire worm which has been doing a good deal of damage. I am on the board to prevent their eating our melon seeds; last year we had a 97% stand—will try again this season and will report to you. Enclosed find a letter sent to my old address. Some member may wish to correspond with the person. With best regards to all,

Yours truly,

J. G. GRUNDEL."

A remembrance from Dr. F. C. Clark—a scarab carved out of wood—was presented, to be drawn by chance. Mr. J. O. Martin was the winner.

Under new business the Secretary stated that it had become a necessity to distribute the Proceedings of the Society, either by donation or purchase, as many matters that should be known were shelved and this was causing unnecessary complications in the literature. It was decided that they should be sold at cost.

It was proposed by Mr. E. P. Van Duzee that the different Scientific Societies should be supplied with a set as far as published. So voted and carried.

Dr. Blaisdell stated that he had recently been studying the genus *Schizillus* and had discovered three new species in the

material collected by Mr. F. W. Nunenmacher and in his own collection.

Dr. E. C. Van Dyke gave a most interesting talk on "The ways in which the Carabidæ have differentiated and the factors which have influenced them in accommodating themselves to their diverse environments." The doctor exhibited an arrangement of certain tribes so as to show the divergence. This particularly included the Trechiini, Pogoniini, etc.

Mr. Fox exhibited transparent mounts of butterflies taken in the Mount Rainier region, with remarks on the rarer species.

Mr. Van Duzee showed a fine series of Noctuids taken about Mount Tamalpais. Mr. Wallace passed around a small box of Coleoptera collected in the sand-dunes about San Francisco.

After discussion of the exhibits and interesting remarks of the evening the meeting adjourned.

F. E. BLAISDELL, SR., Secretary.

The seventy-sixth meeting of the Society, Annual Field Day, was held on May 23rd, 1920, at Canyon Station, Contra Costa County, California.

The following members were in attendance: Dr. E. C. Van Dyke, Mrs. E. C. Van Dyke, Wm. F. Breeze, F. W. Nunenmacher, Dr. F. E. Blaisdell, James E. Cottle, Dr. J. F. Killeen and Mr. Grant Wallace.

Seven guests were present: Mrs. F. E. Blaisdell, Mrs. Grant Wallace, Mrs. J. E. Cottle, Miss Helen Sanford, Master Norwood Breeze, and the Misses Ella and Theresa Nunenmacher.

The weather was pleasant and collecting good. A number of plants and shrubs were in bloom, namely: Poison Oak (*Rhus diversiloba* T. & G.); Cow-Parsnip (*Heracleum lanatum* Michx.), lupines and other annuals. *Zeugophora californica* was beaten from the willow; *Pedilus*, *Malachius*, *Acmaeops*, *Leptura*, *Anthrenus* and *Orphilus* from the flowers of the Cow-Parsnip; *Limonius ornatulus*, *Corymbites inflatus* Say and *Balanus uniformis* Lec from the Oak.

F. E. BLAISDELL, Secretary.

